

KRUSKAL', M.S.; GEFMANETS, V.V.

Performance of holding furnaces in continuous rolling mills.  
Metallurg 4 no.1:24-27 Ja '59. (MIREA 12:1)

1. Zavod "Krivorozhstal'."  
(Rolling mills) (Furnaces, Heating)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4

KUDRIN, Ye.A.; LIKHORADOV, A.P.; KRUSKAL', M.S.; BABANIN, A.I.

Redesign of ceramic soaking pit recuperators. Metallurg 8  
no.10:29-31 O '63. (MIRA 16:12)

1. Krivorozhskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4"

KRUSKEP, V.I.

Installation of additional heaters for three-effect thickener batteries in alumina sections. Suggestion by V.I.Kruskep. Prom. energ. 11 no.3:22-23 Mr '56. (MIRA 9:7)

1.Ural'skiy aluminiyevyy zaved.  
(Alumina)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4

YEREMEYEV, S.Z. and KNUCHENKOV, N.V.

Veterinarians."Test of the use of citrate-phenolized blood of convalescents of foot and mouth disease."

SO:Veterinariya 30(9).September 1953

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4"

KRUSPEL, Jovan A., tehn., saradnik; PAJEVIC, Milan B., inz., saradnik

Possibility of producing shell molds without resins.  
Saop Inst isp mat Srb 11 no.20:76-88 Ag '63.

1. Institut za ispitivanje materijala SR Srbije, Beograd.

KRUSS, I.

Laying the cornerstone of the nuclear reactor of the Institute of  
Physics of the Academy of Sciences. Vestis Latv ak no.6:205-206 '60.  
(EEAI 10:9)

(Latvia--Nuclear reactors)

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A necessary element is shown.  
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33

**Ionization Manometer with Direct Current Amplifier.** (In Russian.) B. V. Kruaser. *Journal of Technical Physics* (U.S.S.R.), v. 17, no. 1, 1947, p. 63-70.

The method of application of a single-cascade d.c. amplifier circuit for the measurement of ion current in an ionization manometer is described. Data concerning this circuit and its calibration are presented. 11 ref.

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CIA-RDP86-00513R000826810011-4"

Krusser, B. V.

P-2733

USSR/Electronic  
Manometers

Jan 1947

"Ionization Manometer with Direct-Current Amplifier,"  
B V Krusser, 8 pp

"Zhurn Tekh Fiz" Vol XVII, No 1

Applications of single-cascade amplifier systems  
employing direct current for measuring ionic currents  
in the manometer. Schematic diagrams, formulas,  
and graphs

2T38

KRUSSER, B.V.  
USSR/Electronics - Cathode Ray Tubes, H-6

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35134

Author: Krusser, B. V.

Institution: None

Title: General Method of Analysis of Television Tubes with Charge Storage

Original  
Periodical: Tekhnika Televideniya (M-vo radiotekhn. prom-sti SSSR), 1954, No 3,  
30-38

Abstract: Gives an analysis of the equivalent circuit of the element of the  
2-way target of the superoptikon. The limiting cases of the equa-  
tions derived are examined for applicability to the analysis of the  
equivalent circuits of the target elements of other transmitting  
tubes. Bibliography, 8 titles.

Card 1/1

6(6)

SOV/112-59-5-9781

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 192 (USSR)

AUTHOR: Malakhov, I. K., and Krusser, B. V.

TITLE: Two-Side-Target TV Camera Tubes

PERIODICAL: Tekhnika kino i televideniya, 1958, Nr 4, pp 62-70

ABSTRACT: Characteristics of modern two-side-target camera tubes with a slow-electron sweep (image orthicons) are considered. The principal circuit diagram of the tube and the functions of its various components are discussed. Principal characteristics of 3 main sections — transfer section, two-side target, and readout section — are set forth. It is stated that the transfer section has an enlargement factor of about 0.9. The accelerating electrode of this section must be designed with particular care to avoid image distortion. The principal characteristic of the two-side target is the spacing between the semiconducting plate and the grid which usually has the order of hundreds mkm (?). The two-side target should be maintained at a rigidly specified

Card 1/2

SOV/112-59-5-9781

Two-Side-Target TV Camera Tubes

temperature with an error  $\pm 10^{\circ}\text{C}$ . The electron-multiplier section is coaxial with the electron gun. Such a design has this disadvantage: the flyback describes a 3 x 4-mm raster on the surface of the first, and sometimes the second, multiplier stages, which results in an additional electron-current modulation and in spotting the monitor screens. To counteract this phenomenon, an additional screen is provided. Characteristics of imported tube models are presented. Bibliography: 20 items.

A.B.P.

Card 2/2

MALAKHOV, I.K.; KRUSSEK, B.P.

Characteristics of camera tubes with a two-sided target, Tekh.  
kino i telev. no.6:37-46 Je '58. (MIRA 11:6)  
(Television--Transmitters and transmission)

В. А. Кривог  
Приемка трубы изолированной для  
трансформаторов напряжения

10 часов  
(с 10 до 16 часов)

Ю. Н. Красников  
Измерение физических свойств с изоляцией

В. А. Зимин  
О применении формулы Фокса для определения  
коэффициента теплопроводности изоляции

С. А. Романов  
Приемка изолированного фоторадиометра для измерения  
плотности изотопного источника

Р. Г. Дорога  
Приемка для приемки изоляции изолированных  
трубок

12 часов  
(с 10 до 22 часов)

В. В. Крупин  
Измерение передачи трубок ступенчатой с  
изоляцией

30

Ч. Г. Балакирев  
Установление соотношения изолированной изоляции  
трубок со спиралью с различными сечениями

Ю. Н. Красников  
Установка для измерения коэффициента

С. А. Красников  
Ю. Н. Красников

О геометрическом измерении радиуса изоляции  
изолированных трубок

Г. С. Савин  
Л. А. Абрамова

0 часов  
(с 10 до 16 часов)

Г. И. Рудин,  
Г. В. Красников  
Измерение радиоактивности изоляции в радио-  
изотропии

В. А. Афанасьев  
Приемка изолированного изотопометра путем из-  
мерения прибора СВЧ

Report submitted for the Confidential Meeting of the Scientific-Technological Society of  
Radio Engineering and Electrical Communications in A. S. Popov (TSCSIS), Moscow,  
8-10 June, 1957

KRÜSSEK, B.M.

REF ID: A6252025

ACF/PJS

U.S. Foreign Intelligence Information Relationship - 1

(See J.A. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 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426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 979, 980, 981, 982, 983, 984, 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1139, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 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1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1739, 1740, 1741, 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1893, 1894, 1895, 1896, 1897, 1898, 1899, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1909, 1910, 1911,

ORLOVSKIY, Ye.L.; KHALFIN, A.M.; KHAZOV, L.D.; ZAVARIN, G.D.;  
KRUSSER, B.V.; SHCHELOVANOV, L.N.; TARANTSOV, A.V., red.;  
KUKOLEVA, T.V., red.; SMUROV, B.V., tekhn. red.

[Theoretical principles of electrical transmission of images;  
television and phototelegraphy] Teoreticheskie osnovy elektri-  
cheskoi peredachi izobrazhenii; televizion i fototelegrafija.  
[By] E.L.Orlovskii i dr. Pod obshchei red. A.V.Tarantsova.  
Moskva, Sovetskoe radio. Vols. 1 - 2. 1962. (MIRA 15:10)  
(Television) (Phototelegraphy)

KUZZMINA A.P., nauchnyy sotrudnik; KRUSSER, I.Y., nauchnyy sotrudnik

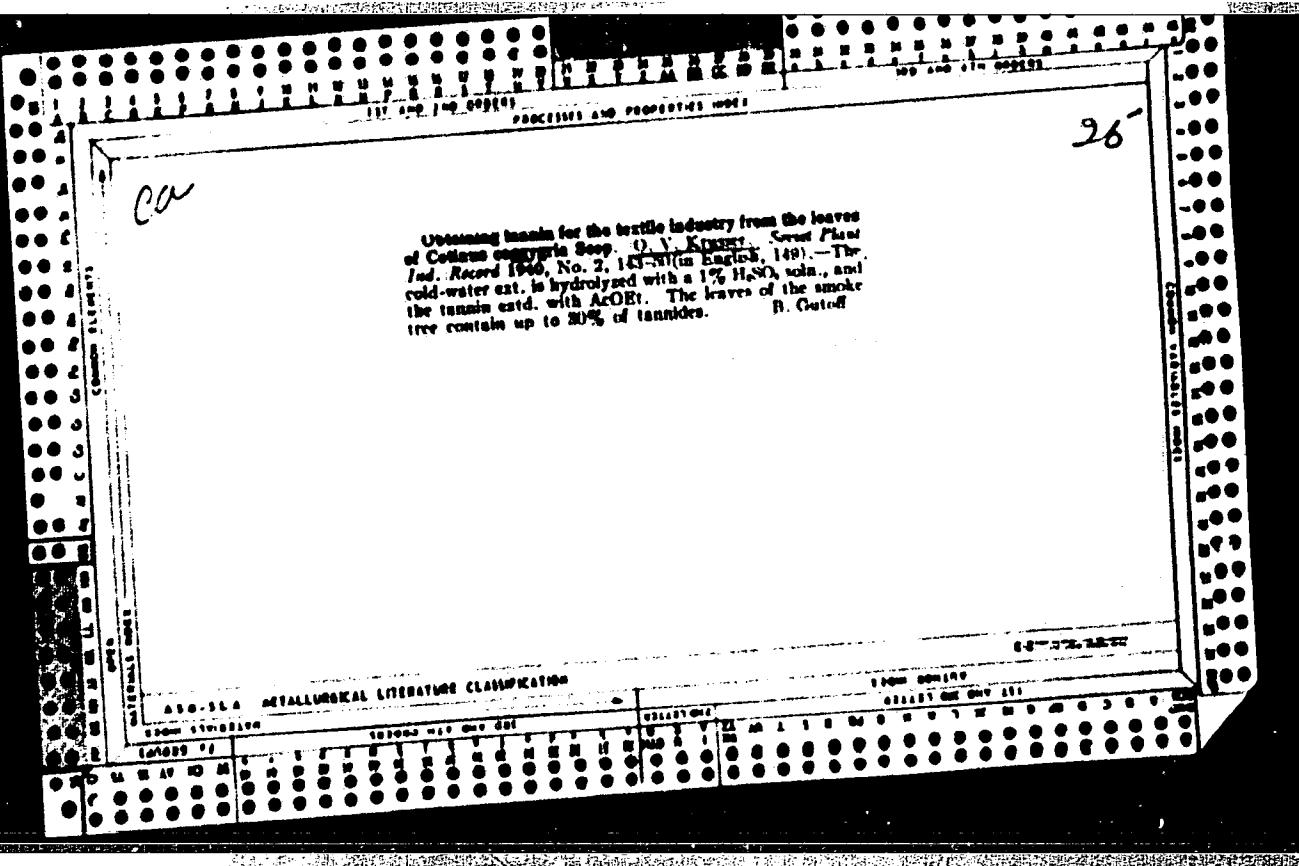
Green fallows in Voronezh Province. Zemledelie 8 no.6:58-59 Je'60.  
(MIRA 13:10)

1. Voronezhskaya opytchnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta kukuruzy.  
(Voronezh Province--Fallowing)

KRUSSER, I.F., kand. sel'skokhoz. nauk

Strip planting of corn. Zemledelie 27 no.5:48-50 My '65.  
(MIRA 18:6)

1. Voronezhskaya opytnaya stantsiya.



*Cd*

## PROCESSED AND PROPERTIES INDEX

*ND*

Increased efficiency of scumpia plantations. O. V. Krusel. Soviet Plant Ind. Record 4, 133-41 (1940). Accumulation of tannin in the leaves of scumpia (Cotinus coggygria Scop.) depends on conditions of growth and on the age of the bushes, as well as of the leaves. Optimum conditions of growth and of the time of leaf gathering must be carefully established as a means of increasing the tannin yield. The experiments were done in Northern Caucasus, where the following conditions were found to be optimum:  
(1) The time of leaf gathering should be late July to August, since in these months the leaves contain the max. amt. of tannins. (2) The bushes must be periodically rejuvenated by trimming, since the tannin content is highest in young bushes and branches decreasing with age of the plant, or of the branch. (3) It is not necessary to reject weak underdeveloped bushes, since the content of tannins in them is the same approx. as in the strong vigorous specimens. (4) In selection work it is necessary to use only bushes with dark-green colored leaves, as well as with furred leaves, since these contain the max. amt. of tannins. (5) In planning the plantation it is necessary to see that direct sunlight is available to each plant, since sunlight favors accumulation of tannins in the leaves increasing the yield as much as 25% at times. Leaves acted upon by the sun have red stems and veins, while those under shadow have these parts green in color.  
C. S. Shapiro  
15 references.

## ADOLSEA - DETAILLED LITERATURE CLASSIFICATION

CA

11D

The chemical composition of pears. O. V. Krasnič  
Bukhnik, Kultur. Rastenij 7, 71 N(1940). Pears contain  
carbohydrates (of fructose, d-glucose and sucrose), N  
substances (approx. 0.4%), org. acids (0.13-0.54%),  
tannic substances (0.032%), vitamins (B, 0.15 R. E. and  
C 8-10 mg. %), enzymes and a no. of trace substances  
(compds. of K, Na, Ca, Mg, Fe, Cu, Si, S, P, B and I).  
The skin of pears contains water 72.5, ash 0.17, fat 1.32,  
cellulose 7.45, non-nitrogenous substances and extractable  
substances 18.2% and ash 0.25% on the fresh wt. of the  
pears. The oil of pear seeds contains glycerides of oleic  
acid approx. 66, stearic acid 8.8 and lauric acid 0.5%.  
The I no. of the seed oil is 123.9-127.2. The leaves  
(July 19) contain water approx. 60 and N 2.63% (0.117  
of which is in a water-insol. form). The leaves contain  
also arbutin, sucrose, pectate and emulsion. Ash of the  
leaves (composing approx. 7% of dry wt.) contains Ca,  
Mg, P and traces of BaSO<sub>4</sub> (approx. 0.0101%). The  
buds of leaves contain lecithin 0.84, hydroquinone 0.3  
0.5% and lactase. The flowers contain trimethylamine.  
Approx. 50% of N of the sap of the wood is in the form of  
polypeptides (approx. 25% of total N of the wood). The  
bark contains little polypeptide, but much monoamino  
acid. Insol. N of the bark contains amine N 40-50%,  
basic N approx. 20, melanin N 10-15, amide N 7-9%,  
humic N 4-7 and indefinite forms of N 5-6%. Approx.  
2% of the indefinite N substances are sol. in alc. and  
approx. 1% are sol. in benzene. Insol. N of the wood  
contains amine N 40, basic N 13, melanin N 14, amide N  
10, humic N 4 and indefinite N approx. 12%. Approx.  
8% of the N is sol. in alc. and 0.1% in benzene. The  
wood of pear trees contains also pentosans and much Si.  
Pear tree bast of branches 1 year old contains a large amt.  
of Ca oxalate crystals. The fruit branches contain more  
starch than do the young branches. W. R. Henna

## ABR-3A METALLURGICAL LITERATURE

ITEM NUMBER

SEARCHED MAY DAY 1961

SERIAL NUMBER

*Cit*

The dependence of the chemical composition of pears on geographical factors. O. V. Krugov, Blokhim, Kul'tur. Kostom. 7, 78-84 (1940).—The varieties of pears grown in different regions differ in chem. compn. This may be due not only to geographical factors, but also to the differences in soils, fertilizers and other conditions of growth. Ripe fruits from northern regions contain less reducing sugars and sucrose. Pears kept at a max. temp. contain a max. amt. of total and reducing sugars. The acidity of pears kept at  $-1^{\circ}$  in all regions was lower than that of pears kept at  $4^{\circ}$ . The amt. of reducing substances obtained after acid hydrolysis of substances insol. in alc. is lower in the northern varieties of pears and the changes in their chem. compn. during ripening are smaller. The amt. of reducing substances decreases with the temp. of storage. The Kubinskij-region (Arzobul'dzhik) pears contain less vitamin C (12.2 13.1 mg %) than do the Matkup (Northern Caucasus)

pears (14.2-21.6 mg. %). The dynamics of the transformation of substances during ripening and storing of pears. *Ibid.* 84-91.—During ripening, hardness of pears decreases, owing to the partial transformation of proto-pectin into sol. pectin under the influence of enzymes and owing to the accumulation of large amounts of other substances sol. in the juice. The amt. of reducing sugars and alc.-extractable substances, consisting mostly of sugars, increases sharply. The earlier the pears are taken off the trees the more stable they are on storage. It is supposed that acetaldehyde is the cause of the deterioration of pears. Chemical differences of different varieties of pears. *Ibid.* 94-9.—The chem. compns. of various kinds of pears as well as their size, color, shape and taste vary between wide limits. The summer varieties are characterized by a low content of sucrose. The content of vitamin C in wild pears is 12.2-21.0 mg per 100 g. and 20.9-8 mg. % in cultivated pears. The higher content in wild pears is attributed in part to their smaller size and relatively greater surface. W. R. H.

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## ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

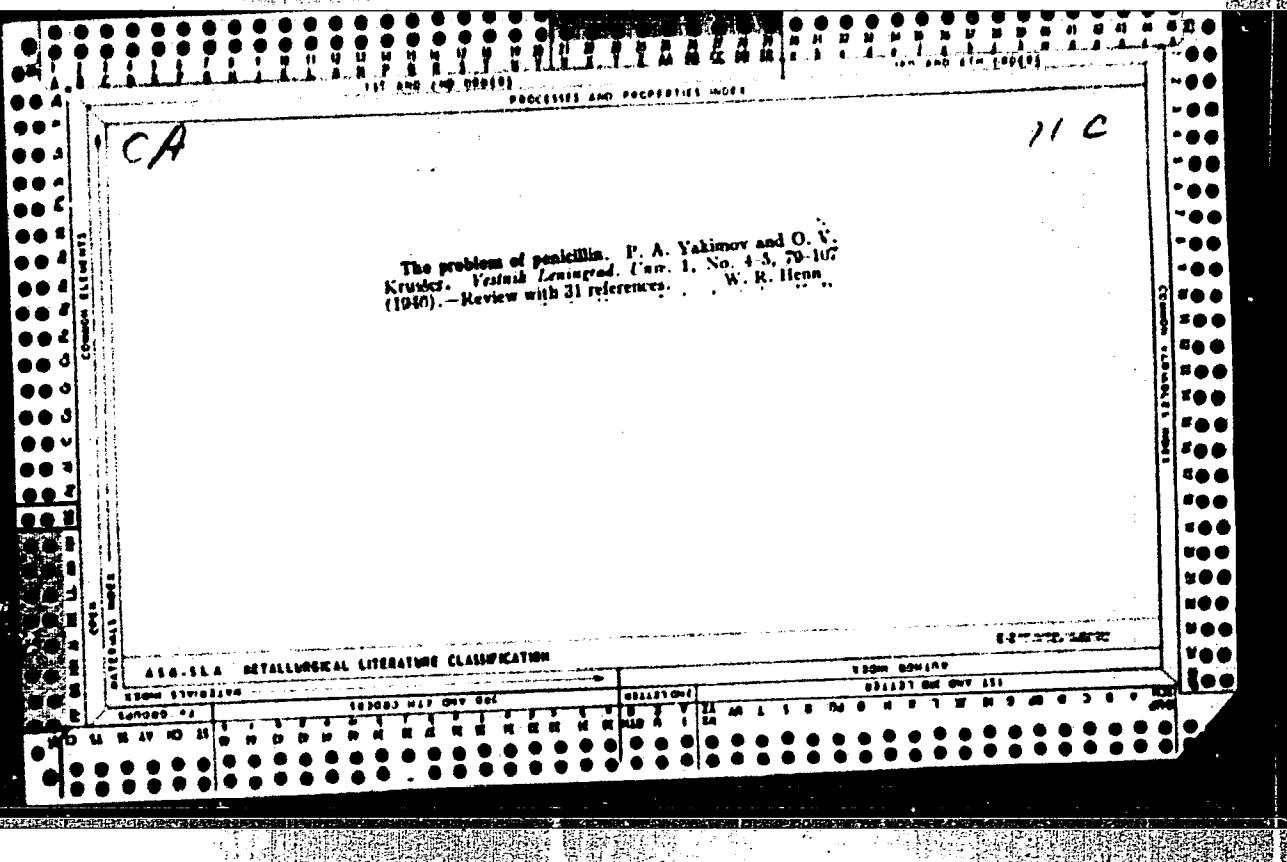
**Biochemistry of *Corylus*.** O. V. Krasner. *Biokhim Kultur. Rasten.* 7, 446-6 (1940). — Analyses are given of nuts of various species of *Corylus*, and the constants of their oils. The nut is edible both raw and toasted. The oil is very similar to almond oil. Flour prep'd. from the nuts is very nourishing. Seventeen references. W. R. Henn

119

**820-824 METALLURGICAL LITERATURE CLASSIFICATION**

**APPROVED FOR RELEASE: 06/14/2000**

CIA-RDP86-00513R000826810011-4"



KRUSSER, O. V.

Yakimov, P. A. and Krusser, O. V. "The problem of tanning crops," In symposium:  
Biokhimiya kul't. rasteniy, Vol. VIII, Moscow-Leningrad, 1948, p. 606-52 -  
Bibliog: p. 649-52

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

KRUSSER, O. V. (USSR)

"Methods for Intensifying the Biosynthesis of Antibiotics in  
Continuous Processes."

Report presented at the 5th International Biochemistry Congress,  
Moscow, 10-16 Aug 1961

KRUSSER, O.V.; ANTONOVA, Z.G.

Continuous vegetative reproduction of *Penicillium chrysogenum*.  
Trudy Len.khim.-farm.inst. no.15245-50 '62. (MIRA 15:11)  
(*PENICILLIUM*)

KRUSSER, O.V.; VASIL'YEVA, T.A.; NIKOLOGORSKAYA, A.P.; OSIFOVA, A.N.

Prolonged fermentation of *Penicillium chrysogenum*. Trudy  
Len.khim.-farm.inst. no.15:51-61 '62. (MIRA 15:11)  
(*Penicillium*)

KRUSSER, O.V.; VALAKHANOVICH, A.I.; KHOLODOVA, G.V.

Enriching the medium for the biosynthesis of streptomycin. Trudy  
Len.khim.-farm.inst. no.15:117-120 '62, (MIFA 15:11)

1. Kafedra tekhnologii antibiotikov (zav. - prof. P.A.Yakimov)  
Leningradskogo khimiko-farmaceuticheskogo instituta i Minskiy  
zavod meditsinskikh preparatov (dir. N.G.Semishon).

(STREPTOMYCIN)

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

KRUSSER, O.V.; YAKIMOV, P.A.; VALAKHANOVICH,A.I.; KHOLODOVA,G.V.; PASHKABOVA,A.A.

Biosynthesis of streptomycin in a medium with fermented soybean meal, Trudy Len.khim.-farm.inst. no.15:127-133 '62.

(MIRA 15:11)

1. Kafedra tekhnologii antibiotikov (zav. - prof. P.A.Yakimov)  
Leningradskogo khimiko-farmatsevticheskogo instituta i Minskiy  
zavod meditsinskikh preparatov (dir. N.G.Semizhon).

(STREPTOMYCIN)

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

KRUSSER, O.V.; VALAKHANOVICH, A.I.; YAKOVLEVA, Ye.P.; BASKAKOVA, A.A.

Isolation of amino acids from the mycelium of Actinomycetes  
globisporus streptomycini. Trudy Len.khim-farm.inst. no.15:  
135-140 '62. (MIRA 15:11)

1. Kafedra tekhnologii antibiotikov (zav. - prof. P.A.Yakimov)  
Leningradskogo khimiko-farmatsevticheskogo instituta i Minskiy  
zavod meditsinskikh preparatov (dir. N.G.Semizhon).  
(AMINO ACIDS) (ACTINOMYCES)

KRUSSER, O.V.; YAKIMOV, P.A.; NESHATAYEVA, Ye.V.; KHAO-SHI-DZEN';  
LOSHKAREVA, Ye.A.

Vegetative reproduction of the mycelium of *Actinomyces aureofaciens*.  
Trudy Len.Khim.-farm.inst. no.15:177-184 '62. (MIRA 15:11)  
(ACTINOMYCES.)

RE: DIAL, M. S.

?30 Opvt Raboty Starshikh Svaragocujiv Nagrevatcl'nykh Kolodtsev, Khar'kov,  
Metallurgizdat, 1954. 43s. S III. 20 SM. (Perevodovye Metody Truda).  
2.500 Ekz. 30 k.--Na Obj. Avt. ne Ukazano.--(14-554. 9) P  
621.771.241st

SO: Knizhnaya, Letopis, Vol. 1, 1955

*Krustal', M.S.*

AUTHORS: Krustal', M.S. and Pluzhnik, V.A. 130-3-14/21

TITLE: The laying of ceramic recuperators. (Kladka keramicheskikh rekuperatorov).

PERIODICAL: Metallurg, 1958, No.3, pp.28-30 (USSR).

ABSTRACT: Pointing out that even with the Stal'proyekt design of ejector hot gas and air burners the pressure difference between the air and flue passages of ceramic recuperators can amount to 25 - 30 mm water gauge, the authors discuss the laying of recuperators in relation to air losses. They describe a new technique now adopted at the "Krivorozhstal'" Works which enables the number of bricklayers capable of working simultaneously to be doubled by the use of wooden platforms resting on the dividing walls (Figs. 3 and 4) which are built up as the work progresses. The adoption of the new technique is said to have enabled air leaks to be reduced to 20%, the laying time to be reduced by 25 days and air temperatures of 600 - 650°C to be achieved.

Card 1/1 There are 4 figures.

ASSOCIATIONS: "Krivorozhstal'" Works and the "Soyuzteplotstroy".

AVAILABLE: Library of Congress.

SOV/130-59-1-11/21

AUTHORS: Kruskal', M.S., and Getmanets, V.V.

TITLE: Operation of Continuous Furnaces for Continuous Mills  
(Rabota metodicheskikh pechey nepreryvnykh stanov)

PERIODICAL: Metallurg, 1959, Nr 1, pp 24-27 (USSR)

ABSTRACT: The authors discuss a 180-m<sup>2</sup> hearth area, two-zone, recuperator type continuous furnace (Fig 1) designed by Stal'projekt, used for heating square 80 and 60 mm billets 11-12 m long for a continuous mill. The furnace is heated by 28 injection burners (Fig 2) and temperature in each zone is automatically controlled with the aid of a platinum/platinum-rhodium couple. A type EPP-120 controlling potentiometer, an IR-130 regulator and a type IMT-6/120 actuator which adjusts the valve in the burner line are used. Pressure is controlled with a type RDM-35 regulator which adjusts the flue valve. Temperatures are measured at several points. The billets are pushed through with a 42-tonne pusher with a speed of 0.18 m/sec. The authors tabulate the main characteristics of these furnaces and discuss their advantages and disadvantages. Among the defects was the construction of the charging end.

Card 1/2

SOV/130-59-1-11/21

Operation of Continuous Furnaces for Continuous Mills

of the furnace and this has been rebuilt (Fig 3). Another improvement was the introduction of a compressed air injection tube into the burner which enabled the calorific value of the gas mixture to be increased to 1800 k cal/m<sup>3</sup>. The expected firing rate through ejection of hot air from the recuperators is  $65 \times 10^6$  k cal/hour. The authors also suggest that the inclination of the furnace floor should be reduced from the designed value of 8° 15', and that burner design should be modified to utilize higher calorific-value gas.

There are 3 figures and 1 table.

ASSOCIATION: Zavod "Krivorozhstal'" (Krivorozhstal' Works)

Card 2/2

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4

KRUSTALEV, M.I., inzh.

Using hydraulic classifiers in fractionating natural sands. Stroi.  
prom. 36 no.8:5-9 Ag '58. (MIRA 11:9)  
(Sand and gravel plants)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4"

KRUSTANOV, B.; SEMERDZHIEV, M.; MICHLEV, M.; KUNEV, K.

Experiences with the treatment of closed diaphyseal fractures of bones  
of the forearm. Khirurgiia, Sofia 11 no.5-6:487-489 1958.

1. Iz Obshchoarmeiskata bolnitsa.  
(FOREARM, fractures,  
surg. (Bul))

## BULGARIA

ALEKSANDROV, Tsv. Sp., NIKOLOV, Iv., KRUSTANOV, D., and TINEV, T.,  
Scientific Research Institute of Radiology and Radiation Hygiene  
(Institut po radiologiya i radiatsionna khigiena) (Docent Iv.  
Nikolov, Director)

"Effect of Various Antibiotics on the Course and Outcome of  
Acute Radiation Sickness in White Rats"

Sofia, Rentgenologiya i Radiologiya, Vol 5, No 1, 1966, pp 45-47.

Abstract: The survival rate of rats irradiated with X-rays in doses of LD<sub>36</sub>/30 and LD<sub>85</sub>/30 and then treated for 12 days by daily intramuscular injections of antibiotics was studied. The antibiotics used were penicillin, streptomycin, erythromycin, resistomycin, biomycin, reverin (pyrrolidinomethyltetracycline hydrochloride), aureomycin (pure tetracycline), erythran, and synthomycin. The maximum therapeutic effect and highest rate of survival resulted on application of tetracycline preparations and derivatives, while the minimum effects were obtained on administration of synthomycin and erythromycin. The therapeutic effect of the antibiotics corresponded to their capacity for activation of catalase in rat tissues (the activity of this enzyme is reduced upon irradiation). Biomycin, a tetracycline preparation of Bulgarian origin, was in no way inferior to aureomycin or reverin. Tables, 2 Bulgarian, 1 USSR, 10 Western references. Russian and English summaries. Manuscript rec. Mar 65.

1/1

- 98 -

KRUSTANOV VUICHIV

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4"

TYY-100, new relay station. p. 27.

Electronic sound recorder. Tr. from the Russian. p.31

RADIO. Vol. 4, No. 11, 1955

Sofiya, Bulgaria

KRUSTANOV, I.

The TYY-100 amplifier. p. 25.  
Advantages of intermediate high frequency. p. 28.

RADIO vol. 4, no. 12, 1955

Sofiya, Bulgaria

so. EAST EUROPEAN ACCESSIONS LIST VOL. 5, no. 7 July 1956.

KRUSTANOV, I.

200 kg of maize per decare. p. 4.  
KOOPERATIVNO ZEMEDELIE, Sofiya, Vol. 10, no. 7, July 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

KRUSTANOV, I.; VULCHEV, I.

TUU-100 vacuum tube. p. 39.

RADIO. Vol. 5, no. 1, 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

KRUSTANOV, I.; VULCHEV, I.

TUU-100 commutator rectifier diagram. p. 54.

RADIO. Vol. 5, no. 7, 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957

KRUSTANOV, I.

KRUSTANOV, I. TYY-100 automatic transformer with relay for high voltage. p. 44.  
Vol. 5, no. 8, 1956 ELEKTROENEROIIA. Sofiia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

KRUSTANOV, Iv., inzh.; STOIANOV, Iv., inzh.

Schematic solution of the Progress radio receiver. Radio i  
televiziia 12 no.2:51-53 '63.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4

KRUSTANOV, Khr.

Cattle breeding in Hungary. Selskostop nauka 2 no.7:881-889 '63.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4"

KRUSTANOV, L.

PETROV, St.

Both Podpolkovnik/Med Serv; Authors of an article entitled "Changes in Serum Cholinesterase in Combined Injuries Resulting From Acute Roentgen Radiation and Tabun Poisoning." (Voenno Meditsinsko Delo, May '61, pp 34-37)

KRUSTANOV, L.; MIOSHEV, G.

On the formation of liquid embryos on nuclei in the adsorption of  
alien substances. Doklady BAN 14 no~~57~~575-578 '61.

BULGARIA

Lt Col (Podpolkovnik) L. KRUSTANOV and Col (Polkovnik) B. YANKOV, MC

"The Role of the Therapeutist in Contemporary War."

Sofia, Voenno Meditsinsko Delo, Vol 18, No 2, 1963; pp 7-10.

Abstract: An overall discussion of the patterns of war as indicated by current trends of development of destructive facilities and techniques: losses and problems will be massive , derive from nuclear biological and chemical weapons , and present totally novel problems for military medical officers. Problems of medical as opposed to surgical care are discussed on a relatively abstract level.

1/1

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4

KHUSTANOV, D.

APPROVED FOR RELEASE: 06/14/2000

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"APPROVED FOR RELEASE: 06/14/2000

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810011-4

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810011-4"

KRUSZYNSKI, L.

"Concerning Turbulent Pulsations of Certain Meteorological Elements,"  
by L. Kruszyrov, Izv. Bulgar. Akad. Nauk. fiz.-matem. i tekhn. n., ser.  
fiz. No 5, 1955, pp 135-137 (from Referativnyy Zhurnal-Geofizika,  
No 1, Jan 57, Abstract No 261)

A short description is given of a semiempirical theory of turbulence and of the basic ideas used for describing the processes of turbulent exchange: the pulsations of substances and the "path of movement." With the aid of this theory, the pulsation of the different meteorological elements is determined and the relationship between the pulsations and the "path of movement" is established. The pulsations of the temperature of the air  $T$ , the potential temperature  $\theta$ , the density  $P$ , and the air pressure  $p$ , are considered. A simple relationship between the relative pulsation of the indicated elements is established. These relationships permit the determination of the relative and absolute values of the pulsations according to the data of the measured temperature pulsations. (U)

SUM. N 1451

KHISTANOV, I.

KHISTANOV, I. New content of the criterion of the turbulence in the atmosphere. p. 149. Vol. 5 Jan./Dec. 1955  
IZVESTIYA SERILA FIZICHESKA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6 No. 4 April 1957

KRUSTANOV, L.

KRUSTANOV, L. Second session of the European Regional Association of Meteorology. p. 58. No. 4, 1956 KHIDROLGIJA I METEOROLOGIJA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6 No. 4 April 1957

KRUSTANOV, L. ; IORDANOV, D.

On the velocity and accretion of deformed cloud drops in coagulation. p. 14.  
(Khidrologia I Meteorologija, No. 6, 1956, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) Lc, Vol. 6, no. 6, June 1957, Uncl.

v 10.3-281

Krustanov, L. (Sofia). A nem teljesen megnyedvesséthető kondenzáció magvak hatékonyságáról. [Effectiveness of semi-adsorbent condensation nuclei.] *Időjárás*, Budapest, 61(5):333-338, Sept./Oct. 1957. 3 figs., 6 refs., 14 eqs. English summary p. 333. Russian version p. 390-394. DLC—A mathematical analysis of the forces and energies involved in the process of droplet formation shows that, under a certain size limit of the nucleus, its dimensions are to be considered as a more important factor for the production of a droplet than its adsorbent properties. *Subject Headings:* 1. Drop formation 2. Drop size 3. Nuclei adsorption properties.—*From author's abstract.*

551.574.1:551.578.11

2

Ex

GW

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August 3, 1959

KUSTANOV, L.

"Concerning the development and the work of the Hydrometeorological Service according to the decisions of the 7th Congress of the Bulgarian Communist Party."

HYDROMETEOROLOGIA I METEOROLOGIA, Sofia, Bulgaria., No. 6, 1958

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), 1C, Vol. 8, No. 7, July 1959, Unclassified

KRUSTANOV, Liubomir

The scientific work of the Bulgarian Academy of Sciences in 1959.  
Spisanie BAN 5 no.4:18-33 '60. (EEAI 10:5)

1. Chl.-kor.  
(Bulgarian Academy of Sciences)

~~EXCLUDED/INCL~~, L.  
SURNAME, Given Names

Country: Bulgaria

Academic Degrees:

Affiliation:

Source: Sofia, Khidrologiya i Meteorologiya, No 4, 1961, pp 3-9

Data: "Cloud Formation in the Upper Atmosphere"

Authors:

/ YUSKESELIEVA, L.

✓ KRUSTANOV, L., Professor, Dr, Member of the staff of Khidrologiya i Meteorologiya, Chief Editor: STANEV, Sv.

070 901643

KRUSTANOV, Liubomir, akad

Forthcoming tasks of the Bulgarian Academy of Sciences in the light of the November Plenum of the Central Committee, Bulgarian Communist Party. Spisanie BAN 7 no.1/2:3-17 '62.

1. I. d. predsedatel BAN.

10

- Sethi, Brijesh Patel-Vaidya, Vaidya, Patel 14, 12, 7, 1963

(Circular Stamp)

  1. "The Possibilities of Correlation and Uniqueness of Codification Norms", G. P. Patel, in "The Problem of the Relation between the Law of India and the Law of England", edited by Prof. D. R. Dhar, Dr. S. K. Bhattacharya and Dr. B. N. Chatterjee, published by the Indian Institute of International Law, Calcutta, 1961.
  2. "Application of the Square Root Test and to the Factor Analysis of the Earth Sciences", A. Patel, pp. 65-67.
  3. "Electro-Stereoscopic Derivatives, or a New Method of Constructing Geological Reconstructions", D. Patel and V. Patel, At pp. 67-72.
  4. "Determining Striations in Iron Cross Correlation Matrix by Laplace's St., Patel and B. Patel, At pp. 87-91.
  5. "Relationships between the Number of Areas in the Province of Khyber Pakhtunkhwa and the Number of Areas in the Province of Orissa in Order to Determine the Origin of Public Jets and Clouds", S. A. Patel, At pp. 97-102.
  6. "Indicative Nature of Establishing POF", Prof. M. S. Patel, At pp. 103-106.
  7. "Effect of Magnetic Changes, Precursors in Seismology", B. Patel, At pp. 111-114.
  8. "Electro-Crystallization of Lead", At. Patel, At pp. 115-117.
  9. "Studies of the Materials Required to Produce Ferrous and Non-Ferrous Alloys", P. D. Patel, At pp. 119-121.

KRUSTAN, L.

KRUSTANOV, I., akad.

The address of the Presidium of the Bulgarian Academy of Sciences to Academician Liubomir Chakalov. Spisanie BAN 7 no.4:140 '62.

1. I. d. predsedatel na Bulgarskata akademija na naukite.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4

KRUSTANOV, Liubomir, akad.

Report on the activities of the Bulgarian Academy of  
Sciences in 1962. Spisanie BAN 8 no.1:4-49 '63.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810011-4"

KRUSTANOV, Liubomir, akad.

Report on the activities of the Bulgarian Academy of Sciences  
in 1963. Spisanie BAN 9 no. 1/2:4-46 '64.

Closing speech of the President of the Bulgarian Academy of  
Sciences. Ibid.:60-67

1. President, Bulgarian Academy of Sciences.

KRUSTANOV, Liubomir, akad.

Bulgarian Academy of Sciences and the 20th anniversary of the socialist revolution. Priroda Bulg 13 no.4:3-6 Jl-Ag '64.

1. President, Bulgarian Academy of Sciences.

MILOSHEV, G.; LEVKOV, L.; KRASHENOV, L. [Krustanov, L.], Academician

Formation of crystalline embryos with tetragonal lattices on the  
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### Poisonings

BULGARIA

KRUSTANOV, L., Colonel of the Medical Service; TSONEV, St.,  
Lieutenant-Colonel of the Medical Service

"Considerations Pertaining to the Medical Safeguarding of Persons Affected by Poisons with a Neuropsychic Action"

Sofia, Voenno Meditsinsko Delo, Vol 21, No 3, Jun 56, pp 9-13

Abstract: It is pointed out that application of modern weapons, specifically of nerve gases and other war gases, may lead to nervous and mental disturbances in persons exposed to their action. Furthermore, work is being conducted in Western countries, particularly in the USA, on substances with a military potential which produce mental disturbances and have an action of the type of hallucinogens, depressants, or super-excitants. Under the circumstances, attention should be paid to the treatment of psychotic states produced by poisons applied in wartime. In the treatment of psychomotor excitation, single intramuscular injections of largactyl in a dose of 50-100 mg will have a good effect. Depending on pathogenetic

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AUTHOR: Krustanov, L. - Krystanov, L. (Colonel, Medical corps, Docent); Goshev, Khr. (Colonel, Medical corps)

ORG: Higher Military Medical Institute (Vissh voenno meditsinski institut)

**TITLE:** The peripheral blood characteristics of personnel exposed to a superhigh frequency electromagnetic field

SOURCE: Voenno-meditsinsko delo, no. 4, 1966, 41-46

TOPIC TAGS: SHF, microwave, hematology, peripheral blood, microwave radiation effect, radiation hematologic effect, electromagnetic field

**ABSTRACT:** Changes in the peripheral blood of personnel working around SHF electromagnetic fields in anti-aircraft and air force installations were studied. Some results are given in Table 1. Characteristics of the findings was a tendency towards

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Table 1

Blood Components	Tour of duty					Mean
	Up to 3 yr	3-5 yr	5-10 yr	more than 10 yr		
I	2	3	4	5		
<b>Hemoglobin</b>						
— from 100 to 110%	8.3%	7%	7.4%	8%	6.6%	
— " 60 to 100%	94.7%	93%	92.6%	91.5%	92.8%	
— under 60%	—	—	—	0.5%	—	
<b>Erythrocytes</b>						
— above 5,000,000	10.8%	12.5%	11.3%	20.9%	12%	
— from 4 to 5,000,000	66.4%	79.5%	82%	74.4%	82%	
— " 4 to 3,500,000	28%	8%	5.4%	4.7%	4.5%	
<b>Leukocytes</b>						
— under 4,000	0.7%	1.07%	1.3%	—	0.6%	
— from 4 to 5,000	9%	12.3%	9.3%	11.5%	10.5%	
— " 5 to 6,000	71.6%	72.6%	70%	69.2%	71.3%	
— " 8 to 10,000	17%	12.3%	19.3%	17.3%	16.1%	
— above 10,000	1.6%	1.07%	—	1.9%	1.04%	
<b>Differential count</b>						
— Clustered nuclei	2.6%	3.2%	4.1%	8%	3.7%	
— above 5	—	—	—	—	—	
— Segmented nuclei	18.6%	19.5%	21.3%	20%	19.7%	
— above 65	11.6%	16.8%	21%	37%	10.0%	
— under 55	—	—	—	—	—	
— Lymphocytes	28%	8.2%	7.2%	10.6%	16.6%	
— under 20	—	—	—	—	—	
— above 40	8.1%	11.4%	10.3%	17.6%	10.6%	
— Monocytes	1.3%	1.9%	3.0%	2.1%	2.0%	
— above 5	—	—	—	—	—	
— Eosinophils	1.1%	2.0%	4.1%	4%	3.04%	
— above 4	—	—	—	—	—	

Card 2/3

L 44767-66  
ACC NR: AP6031194

increased leukocyte counts (upper limits of normal) in a substantial number of personnel. Changes were more pronounced in personnel with longer tours of duty.  
Orig. art. has: 1 table. [CD]

SUB CODE: 06/ SUBM DATE: 16May66/ ORIG REF: 002/ SOV REF: 010/ ATD PRESS: 5080

Card 3/3 ULR

## Industrial Medicine

BULGARIA

KRUSTANOV, L., GOSHEV, Khr., Colonels of the Medical Service;  
Higher Military Medical Institute (Chief Prof. N. Kupenov)

"Formed Element Composition of the Peripheral Blood in Subjects  
Working Under Conditions of Exposure to a Superhigh-Frequency  
Electromagnetic Field"

Sofia, Voenno-Meditsinsko Delo, Vol 21, No 4, Aug 66, pp 41-46

Abstract: In a study conducted, changes in the peripheral blood of technicians exposed to the action of superhigh-frequency electromagnetic fields were found that comprised primarily monocytes and erythrocytosis. In a considerable number of cases there was a tendency towards an increase in the leukocyte count to the upper normal limit or above it, particularly after prolonged activity that involved exposure to superhigh-frequency fields. In some cases lymphocytosis was observed and also a reduction in the number of cells with segmented nuclei. In a few cases there was development of cells with rod-shaped nuclei or eosinophilia. The results obtained by the authors in the

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AUTHOR: Krustanov, L. (Colonel, Medical corps, Docent); Goshev, Khr. (Colonel, Medical corps)

ORG: Higher Military Medical Institute (Vissh voenno meditsinski institut)

TITLE: The peripheral blood characteristics of personnel exposed to a superhigh-frequency electromagnetic field

SOURCE: Voenno-meditsinsko delo, no. 4, 1966, 41-46

TOPIC TAGS: SHF, microwave, hematology, peripheral blood, microwave radiation effect, radiation hematologic effect, electromagnetic field

ABSTRACT: Changes in the peripheral blood of personnel working around SHF electromagnetic fields in anti-aircraft and air force installations were studied. Some results are given in Table 1. Characteristic of the findings was a tendency towards

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Zav. katedrata prof. G. Tenchov[deceased]. Nauchno-issledo-  
vatelski onkologichen institut Direktor: prof. V. Mikhailov.  
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KRUSTEV, B.; PAMPULOV, Zdr.

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